Index of Claims

| Ann     | licati | on/C   | ontr  | n l | Nο |
|---------|--------|--------|-------|-----|----|
| , , F F |        | •··· • | ••••• |     |    |

09/623,533

Examiner

Jeffrey S. Parkin, Ph.D.

Applicant(s)/Patent under Reexamination

BRIDON ET AL.

1648

| √ | Rejected |
|---|----------|
| I | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| _ Z | Non-Elected  |
|-----|--------------|
| 1   | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| The color of the | Claim            |                  |                     | Dr            | ıto.    |  |  | 111111   | Cla      | nim.            | _  |              |               | Dat     |            |                     |         | ]:::::: | CI       | aim      | _               |                |                    | Date         |              |          | —  | _ |
|--|------------------|------------------|---------------------|---------------|---------|--|--|----------|----------|-----------------|--|--------------|---------------|---------|------------|---------------------|---------|---------|----------|----------|-----------------|----------------|--------------------|--------------|--------------|----------|--|---|
| The state of the | $\neg \neg \neg$ | $\overline{}$    |                     | T D           | 1.0     |  |  |          |          |                 | \ <u>.</u>                                       |              | т             |         | , <u>e</u> | 1                   |         | 1       | <u> </u> |          | H               |                | <del></del> '      | Jall         | <u> </u>     | 1        |  |   |
| 1  | Original         | 2/8/12           | .                   |               |         |  |  |          | Final    | Original        | 118/0  |              |               |         |            |                     |         |         | Final    | Original |                 |                |                    | ,            |              |          |  |   |
| 102  | 1 1              |                  |                     | -             | +       | $\vdash$   | +-   |          |          |                 | 2  |              | +             | +       | $\vdash$   |                     | +       |         |          |          | Н               | +              | ╁                  |              | Н            | $\dashv$ | $\dashv$   | _ |
| 3  | 1 1              | •                | +                   | _             |         | $\vdash$   | $\dashv$   |          |          | 5               | $\vdash$   | -            |               | +       | H          |                     |         |         |          |          | H               | +              | +                  | -            | -            |          | $\dashv$   | _ |
| 4   7   104   105   105   106   106   106   106   107   108   108   108   109   10 |                  | -                | $\dashv$            | -             | +       | -  | +  |          |          | <u> </u>        |  |              | $\dashv$      | +-      | $\vdash$   |                     | +       |         |          |          | H               |                | +                  | H            | $\vdash$     | $\dashv$ | $\dashv$   | _ |
| S  |                  |                  | -   -               |               | +       | $\vdash$   | +  |          |          | <del>- 23</del> | ┢  | -            | -             | +       | +          | -                   | +       |         |          |          | Н               | +              | +-                 | ⊢            | $\vdash$     | $\dashv$ | -+   |   |
| 6  |                  | ~                | -                   | -             | +       | $\vdash$   | +-   |          | -        | 2               | ├  | ├            | +             | +       | ╁          |                     |         |         | -        |          | H               | -              | +                  | ├            | $\vdash$     | -        | $\dashv$   |   |
| 107  |                  | -                | $\dashv$            | $-\vdash$     | +-      | $\vdash$   | +  |          |          |                 | ├  | $\vdash$     |               | +       | +          | -                   |         |         |          |          | ├─┤             |                | +                  | <b></b>      | $\vdash$     | -        | $\dashv$   |   |
| S   S   S   S   S   S   S   S   S   S  |                  | -                | -                   |               | +-      | $\vdash$   | +  |          |          | 50              | $\vdash$   | -            |               | +       | $\vdash$   | $\rightarrow$       |         |         |          |          |                 |                | +                  |              | $\vdash$     | -        | -  |   |
| S  | +1+              |                  |                     | $\dashv$      | -       |  | +  |          |          |                 | ├  | -            | <del>-</del>  | +-      | $\vdash$   | $\rightarrow$       |         |         |          |          | Н               | _              |                    | _            | Н            | $\dashv$ | $\dashv$   |   |
| 10   |                  |                  |                     | -             |         |  | +  |          |          |                 | ١.,  | _            | -             | +-      | $\vdash$   | -                   | _       |         |          |          | Н               | -              | ╄-                 | <u> </u>     | Н            | $\dashv$ | $\dashv$   |   |
| 1  |                  |                  |                     |               | -       |  | $\perp$  |          |          |                 | ~  | <b>.</b>     |               | -       | 4—         | $\dashv$            |         |         |          |          | $\vdash$        | _              | 4                  | L            | $\vdash$     |          | $\dashv$   |   |
| 12   |                  | _                | $\dashv$            |               |         | $\vdash$   | $\perp$  |          |          |                 | Ш  | <u> </u>     |               | 4       | 4          | $\rightarrow$       |         |         |          |          | Ш               | $\perp$        | ₩                  | L            |              | _        | _  |   |
| 18   |                  |                  |                     |               |         | $\vdash \vdash$                                  | +  |          |          |                 | 4  | $\vdash$     |               | - -     | Ш          | $\dashv$            | +       |         |          |          | $\sqcup$        | $-\!\!\!\!\!+$ | $\perp$            | <u> </u>     | Ш            | $\dashv$ | $\dashv$   | _ |
| 11   |                  |                  |                     | Ц.            | -       | $\perp$  | $\perp$  |          |          |                 | 1  | <u> </u>     | _             |         | Ш          | $\perp$             | $\perp$ |         |          | 112      | Ш               |                | $\perp$            | <u> </u>     | Ш            |          |  |   |
| 15   |                  | _                | $\dashv$            | $\perp$       |         | <b> </b>  _                                      | $\perp$  |          |          |                 | L  | Щ            |               |         | Ш          | $\dashv$            | _       |         |          |          | Ш               |                | $\perp$            | L_           |              | $\perp$  | Ц  | _ |
| 16   |                  | _                |                     | $\perp$       | $\bot$  | lacksquare                                       | $\perp$  |          |          |                 | Ш  | L_           | $\sqcup \bot$ | $\bot$  | Ш          |                     | _       |         |          |          | Ш               |                | ┺                  | L            | igsquare     |          | _  |   |
| 11   |                  |                  |                     |               |         | $\sqcup \bot$                                    | Ш  |          |          |                 | Ш  | $oxed{oxed}$ |               |         | Ш          |                     | $\bot$  |         |          |          | Ш               |                | ┖                  | L            | $oxed{oxed}$ | $\Box$   | $\Box$   | _ |
| 18   |                  |                  |                     | $\perp$       | $\perp$ | otacluster                                       | $\perp$  |          |          |                 | Ш  |              |               | $\perp$ | Ш          | ot                  |         |         |          |          | Ш               |                |                    | L            |              |          |  |   |
| 19   | 11               |                  |                     |               |         |  |  |          |          |                 | L  |              |               |         |            |                     |         |         |          |          |                 | L_             | 1                  | L.           |              |          |  |   |
| To   To   To   To   To   To   To   To  |                  |                  | ]                   |               |         |  |  |          |          |                 | L  |              |               |         |            |                     |         |         |          |          | L]              |                |                    |              |              |          |  |   |
| 21     71     121     122     122     123     122     123     123     123     123     123     124     124     124     125     126     126     126     127     126     127     127     128     129     129     129     129     129     130     130     130     130     130     131     131     132     133     133     133     133     133     133     133     133     134     134     135     136     136     137     137     136     137     137     138     138     138     138     138     138     139     140     140     141     141     141     141     142     143     144     144     144     144     144     145     146     146     146     147     147     147     147     147     147     147     147     147     147     147     147     147     147     147     147     147     147  | 19               | Z                |                     |               |         |  |  |          |          | 69              | П  |              |               |         |            |                     |         |         |          | 119      |                 |                |                    |              | П            |          |  |   |
| 121  | 20               |                  | _                   |               |         |  |  |          |          | 70              | П  |              |               | 1 -     | $\Box$     |                     |         |         |          |          |                 |                |                    |              | П            |          |  |   |
| 27   72   122   123     24   74   124   124     25   75   125   126     26   76   126   127     28   77   127   128     29   79   129   130     30   80   130   131     31   81   131   132     33   83   133   133     34   83   133   134     36   86   136   137     37   88   138   137     38   87   137   138     39   88   139   139     40   90   140   90     41   91   141   142     43   93   144   143     45   96   145   146     46   96   146   147   | 21               | $\boldsymbol{J}$ |                     |               | Т       |  |  |          |          |                 |  | П            | $\neg$        |         |            |                     |         | 1       |          |          | П               |                | 1                  | Г            | П            | T        | $\neg$   | _ |
| 123  |                  |                  |                     |               |         |  |  |          |          |                 |  |              |               |         | П          |                     |         |         |          | 122      |                 |                |                    |              |              |          | ╗  |   |
| 24   74   124   125     25   76   126   126     21   77   127   127     23   78   128   129     30   80   130   130     31   81   131   131     32   82   132   132     33   83   133   133     34   84   134   134     35   86   135   136     36   86   136   137     38   88   139   139     40   90   140   141     41   91   141   142     42   93   143   144     45   96   146   147  | 23               | ヿ                |                     |               |         |  | $\top$   |          |          |                 | IT   | П            | _             | 十       |            | $\neg$              | $\top$  |         |          |          | H               | -              | 1                  | _            | Н            | 7        | ヿ  |   |
| 75   |                  | _                |                     |               | $\top$  |  | $\vdash$   |          |          |                 | 1  | $\vdash$     |               | +       | 1          |                     | $\neg$  | 1       |          |          | $\vdash$        |                | +                  | <del> </del> | Н            | 7        | _  | _ |
| 76   126   127   127   128   128   128   129   129   130   130   130   130   131   131   131   131   132   132   132   132   132   133   133   133   134   134   134   134   135   136   136   136   136   136   137   137   138   | 25               | $\dashv$         | $\neg$              |               | +-      | <del></del>                                      | $\dashv \dashv$  |          |          |                 | H  |              | $\dashv$      | +       | 1-1        | $\neg$              | +       |         |          | 125      | H               |                | +                  |              | Н            | _        | 十  | _ |
| 127  | 26               | $\dashv$         |                     |               | +       | $\vdash \vdash$                                  | +  |          |          |                 | Н  |              | -             | +-      | +          |                     |         |         |          |          | $\vdash$        | +              | +                  | $\vdash$     | $\vdash$     | +        | $\dashv$   |   |
| 28   78   128     29   80   129     30   80   130     31   81   131     32   83   132     33   83   133     34   84   134     33   84   134     34   85   135     36   86   136     37   88   138     39   89   139     40   90   140     41   91   141     42   93   143     43   94   144     44   95   145     45   96   146     46   96   147  |                  | $\dashv$         | $\dashv$            |               | +       | $\vdash$   | +  |          |          | 77              | Н  |              | +             | +       | $\vdash$   | -+                  | ╅       |         |          | 127      | $\vdash$        | +              | +                  | -            |              | -        | 十  | _ |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   83   133     35   85   135     36   86   136     37   87   137     38   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     47   97   147  | 28               | $\neg$           | ++                  | _             | +       |  | ╅  |          |          |                 | Н  |              | $\dashv$      | +       | $\vdash$   | +                   |         |         |          |          | $\vdash$        | +              | +                  | -            | $\vdash$     |          | $\dashv$   |   |
| 30   |                  |                  |                     | -             | +       |  | +  |          |          |                 | ╫  | Н            | +             | +-      | +          | $\dashv$            | ╌       |         |          |          | $\vdash$        |                | ╁                  | -            |              | -+       | -+   |   |
| 31   | 24               |                  | +                   |               | +       | $\vdash$   | +  |          |          |                 | H  | $\vdash$     | +             | +       | ╁╌┤        | +                   |         |         |          | 129      | ┝╌              | +              | +                  | -            | Н            | $\dashv$ | $\dashv$   |   |
| 32   |                  | <del>- /</del>   |                     | _             |         | $\vdash$   | +  |          |          |                 | ₩  | $\vdash$     |               |         | +          |                     | ┿       |         |          |          |                 | -              | +                  | -            | Н            | -        |  |   |
| 83   |                  | -                | $\dashv$            |               | +       | <del>                                     </del> | $\dashv$   |          |          |                 | H  | Н            | +             | +       | Н          | $\dashv$            | -       |         |          |          | $\vdash \vdash$ |                | ╁                  | H            | $\vdash$     |          |  |   |
| 34   | 3                | -                | +                   |               | +       | $\vdash\vdash$                                   | +  |          | $\vdash$ |                 | <del>                                     </del> | ⊢            | $\dashv$      | ┰       | $\vdash$   | +                   |         | 1       |          |          | $\vdash$        |                | +                  | H            | $\sqcup$     | -        |  | _ |
| 38   |                  |                  |                     | $\dashv$      | -       | $\vdash \vdash$                                  | +  |          |          |                 | <b>H</b>   | Н            |               |         | ₩          | -+                  | -       |         |          |          |                 |                | +                  |              | Ш            | _        |  | _ |
| 36   | 34               | -                |                     |               | +       | $\vdash \vdash$                                  | +  |          |          |                 | 1  |              | -+            |         |            | $\perp$             |         | 1 1     |          |          | $\vdash \vdash$ |                | ┼                  | _            | Ш            | _        | -  |   |
| 37 87   38 137   39 88   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 147  |                  |                  |                     | +             | +       | <del>-   -</del>                                 |  |          |          |                 | 1  | $\vdash$     | $\vdash$      | +       | $\vdash$   |                     | +       |         |          |          | $\vdash$        |                | ╀-                 |              | $\sqcup$     | _        | 4  | _ |
| 38 7   39 7   40 90   41 91   43 92   44 93   45 95   46 96   47 97  |                  | 싀                | $\dashv$            | $\dashv$      | +       | <b>├</b> -├-                                     | 44   |          | ļļ       |                 | 1  | Ш            | $\perp$       | _       | $\sqcup$   | $\dashv$            |         |         |          | 136      | $\sqcup$        |                | $oldsymbol{\perp}$ |              | Ш            | _        | _  | _ |
| 39 V   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |                  | _,               |                     | $\bot$        | $\bot$  | $\vdash \vdash$                                  | 44   |          |          |                 | Ц.   | Ш            |               | _ _     | Ш          |                     | —       |         |          |          | Щ               |                | $\bot$             | L.           | Ш            | _        | _  |   |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97  |                  |                  | $\dashv$            |               |         | igspace  | 44   |          |          |                 | 4  | Щ            | $\dashv$      |         | $\sqcup$   |                     | $\bot$  |         |          | 138      | <u> </u>        |                | $\perp$            | lacksquare   | Ш            | _        |  |   |
| 41 91 141   42 92 142   43 93 143   44 94 144   45 95 145   46 96 146   47 97 147  | 39               | V                |                     | $\dashv$      |         | $\vdash$   | $\bot$   |          |          | 89              | <u> </u>   | Ш            | $\perp$       | $\bot$  | Ш          |                     | _       |         |          | 139      | $\sqcup$        |                | $\perp$            | Ш            | Ш            |          | Ц  |   |
| 92 142 143 143 144 144 145 145 145 146 147 147 147 147 147 147 147 147 147 147   | 40               | _[               | $\perp \perp \perp$ |               | $\perp$ | igspace  | 44   |          |          |                 | <u> </u>   | $\sqcup$     |               |         | Ш          | $\perp \! \! \perp$ |         |         |          | 140      | Ш               |                | <u> </u>           | $\Box$       |              |          | 丄  | _ |
| 93 143 144 144 144 145 145 146 147 147 147 147 147 147 147 147 147 147   | 41               | ᆜ                |                     | _             | $\perp$ | $oxed{oxed}$                                     | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |          |          |                 | <u></u>  |              |               | $\bot$  | Ш          |                     |         |         |          | 141      | Ш               | L_             | $oxedsymbol{oxed}$ | $\Box$       | $\square$    |          | $oldsymbol{ol}}}}}}}}}}}}}}}}}}}}$ |   |
| 44   | 42               |                  | $\perp$             |               |         |  | ╧  |          | ]        |                 | L  |              |               |         | ot         |                     |         |         |          | 142      |                 |                | $\prod$            |              |              |          | [  |   |
| 44   | 43               | [                |                     |               |         |  | $oldsymbol{ol}}}}}}}}}}}}}}}}}$  |          |          | 93              |  |              |               |         |            |                     |         |         |          | 143      |                 |                |                    |              |              |          |  |   |
| 45   | 44               | _]               |                     |               |         |  | $\Box$   |          |          |                 | $L^-$  |              |               |         | $\Box$     |                     |         |         |          | 144      |                 |                | Γ                  |              | $\Box$       |          |  |   |
| 46   | 45               | _]               |                     | $\Box \Gamma$ |         |  |  |          |          |                 |  |              |               |         |            |                     |         |         |          | 145      |                 |                |                    |              |              |          | J  |   |
| 97 147 147   | 46               |                  |                     |               |         |  |  |          |          |                 |  |              | $\Box$        | Т       | П          | $\top$              | T.      |         |          |          |                 |                |                    |              | $\Box$       | ヿ        | T  |   |
|  | 4                | $\neg$           | $\neg \neg$         |               |         | П  |  |          |          |                 |  |              |               | T       | П          |                     |         | 1       |          | 147      | П               | $\neg \vdash$  | Τ                  | П            | П            | ヿ        | 寸  |   |
|  | 48               | ╛                | $\neg$              | $\neg$        | $\top$  |  | $\top$   |          |          | 98              | Ī  | П            |               | 1-      | П          |                     | 1       | 1       |          | 148      |                 | $\dashv$       | 1                  | П            | П            | 寸        | ヿ  | _ |
| 49 99 149  | 49               |                  |                     | _             | $\top$  |  | $\sqcap$   |          |          |                 |  | П            | 十             | $\top$  | П          | $\neg$              | 1       |         |          | 149      | H               | $\neg$         |                    | П            | П            |          | 一  | _ |
| 50 100 150 150   | 50               | _                | +                   |               | $\top$  |  | $\top$   | <b> </b> |          | 100             | _  | П            | $\dashv$      | $\top$  | $\vdash$   | $\dashv$            | 1       |         |          | 150      | $\vdash$        | $\dashv$       | $\top$             | Т            |              | 7        | $\dashv$   | _ |